ABSTRACT

	The present invention relates to the discovery, identification and
5	characterization of nucleotides that encode novel substrate-targeting subunits of ubiquitin
	ligases. The invention encompasses nucleotides encoding novel substrate-targeting
	subunits of ubiquitin ligases: FBP1, FBP2, FBP3, FBP4, FBP5, FBP6, FBP7, FBP8, FBP9,
	FBP10, FBP11, FBP12, FBP13, FBP14, FBP15, FBP16, FBP17, FBP18, FBP19, FBP20,
10	FBP21, FBP22, FBP23, FBP24, and FBP25, transgenic mice, knock-out mice, host cell
	expression systems and proteins encoded by the nucleotides of the present invention. The
	present invention relates to screening assays that use the novel substrate-targeting subunits
	to identify potential therapeutic agents such as small molecules, compounds or derivatives
	and analogues of the novel ubiquitin ligases which modulate activity of the novel ubiquitin
15	ligases for the treatment of proliferative and differentiative disorders, such as cancer, major
	opportunistic infections, immune disorders, certain cardiovascular diseases, and
	inflammatory disorders. The invention further encompasses therapeutic protocols and
	pharmaceutical compositions designed to target ubiquitin ligases and their substrates for the
20	treatment of proliferative disorders.

25

30

35